DP-100 ^{Q&As}

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Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

HOTSPOT

You are implementing hyperparameter tuning for a model training from a notebook. The notebook is in an Azure Machine Learning workspace. You add code that imports all relevant Python libraries.

You must configure Bayesian sampling over the search space for the num_hidden_layers and batch_size hyperparameters.

You need to complete the following Python code to configure Bayesian sampling.

Which code segments should you use? To answer, select the appropriate options in the answer area

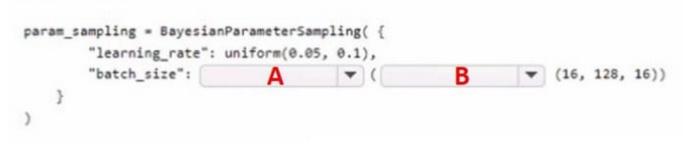NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
param_sampling = BayesianParameterSampling( {
        "learning_rate": uniform(0.05, 0.1),
        "batch_size":  [    A    ▼] ( [    B    ▼] (16, 128, 16))
    }
)
```

A ▼
loguniform
Placeholder

B ▼
range
Placeholder

Correct Answer:

Answer Area

```
param_sampling = BayesianParameterSampling( {
        "learning_rate": uniform(0.05, 0.1),
        "batch_size":  [    A    ▼] ( [    B    ▼] (16, 128, 16))
    }
)
```

A ▼
loguniform
Placeholder

B ▼
range
Placeholder

QUESTION 2

DRAG DROP

You configure a Deep Learning Virtual Machine for Windows.

You need to recommend tools and frameworks to perform the following:

1.

Build deep neural network (DNN) models

2.

Perform interactive data exploration and visualization

Which tools and frameworks should you recommend? To answer, drag the appropriate tools to the correct tasks. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view
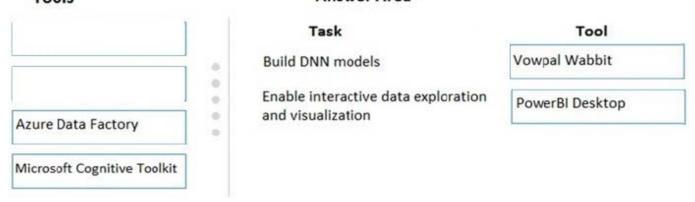
content.

NOTE: Each correct selection is worth one point.

Select and Place:

Tools

Vowpal Wabbit

PowerBI Desktop

Azure Data Factory

Microsoft Cognitive Toolkit

Answer Area

Task	Tool
Build DNN models	Tool
Enable interactive data exploration and visualization	Tool

Correct Answer:

Tools

Azure Data Factory

Microsoft Cognitive Toolkit

Answer Area

Task	Tool
Build DNN models	Vowpal Wabbit
Enable interactive data exploration and visualization	PowerBI Desktop

Box 1: Vowpal Wabbit

Use the Train Vowpal Wabbit Version 8 module in Azure Machine Learning Studio (classic), to create a machine learning model by using Vowpal Wabbit.

Box 2: PowerBI Desktop

Power BI Desktop is a powerful visual data exploration and interactive reporting tool

BI is a name given to a modern approach to business decision making in which users are empowered to find, explore, and share insights from data across the enterprise.

References:

https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/train-vowpal-wabbit-version-8-model

https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/interactive-data-exploration

QUESTION 3

You plan to use a Python script to run an Azure Machine Learning experiment. The script creates a reference to the experiment run context, loads data from a file, identifies the set of unique values for the label column, and completes the experiment run:

from azureml.core import Run import pandas as pd run = Run.get_context() data = pd.read_csv(\\'data.csv\\') label_vals = data[\\'label\\'].unique() # Add code to record metrics here run.complete()

The experiment must record the unique labels in the data as metrics for the run that can be reviewed later.

You must add code to the script to record the unique label values as run metrics at the point indicated by the comment.

Solution: Replace the comment with the following code:

for label_val in label_vals:

 run.log(\\'Label Values\\', label_val)

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

The run_log function is used to log the contents in label_vals:

for label_val in label_vals: run.log(\\'Label Values\\', label_val)

Reference: https://www.element61.be/en/resource/azure-machine-learning-services-complete-toolbox-ai

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QUESTION 4

You run an experiment that uses an AutoMLConfig class to define an automated machine learning task with a maximum of ten model training iterations. The task will attempt to find the best performing model based on a metric named accuracy.

You submit the experiment with the following code:

```
from azureml.core.experiment import Experiment
automl_experiment = Experiment(ws, 'automl_experiment')
automl_run = automl_experiment.submit(automl_config, show_output=True)
```

You need to create Python code that returns the best model that is generated by the automated machine learning task. Which code segment should you use?

A. best_model = automl_run.get_details()

B. best_model = automl_run.get_metrics()

C. best_model = automl_run.get_file_names()[1]

D. best_model = automl_run.get_output()[1]

Correct Answer: D

The get_output method returns the best run and the fitted model.

Reference:

https://notebooks.azure.com/azureml/projects/azureml-getting-started/html/how-to-use-azureml/ automated-machine-learning/classification/auto-ml-classification.ipynb

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QUESTION 5

You have an Azure Machine Learning workspace. You are connecting an Azure Data Lake Storage Gen2 account to the workspace as a data store.

You need to authorize access from the workspace to the Azure Data Lake Storage Gen2 account.

What should you use?

A. Service principal

B. SAS token

C. Managed identity

D. Account key

Correct Answer: C

Roles and requirements for Azure Data Share With Azure Data Share service, you can share data without exchanging credentials between data provider and consumer. For snapshot-based sharing, Azure Data Share service uses Managed Identities (previously known as MSIs) to authenticate to Azure data store. Azure Data Share resource\\'s managed identity needs to be granted access to Azure data store to read or write data.

Reference: https://learn.microsoft.com/en-us/azure/data-share/concepts-roles-permissions

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